SERVICE MANUAL

FOR

MODEL MHD-341-Dr1

MAGNETIC HOOKSWITCH DESKTOP TELEPHONE

EQUIPPED WITH VOLUME CONTROL, BACKGROUND NOISE ELIMINATION, XFD PRINTED CIRCUIT, AND RECEIVER-OPERATED MAGNETIC HOOKSWITCH

CEECO

Serving the Telephone Industry Since 1930

Communication Equipment
& Engineering Company

519 West South Park Street
Okeechobee, FL. 34972
Voice: 863-357-0798
Fax: 863-357-0006

IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL MHD-341-Dr1
SERIAL NUMBER	
DATE MANUFACTURED	
LOCATION INSTALLED	

For us to better serve you, please have this information available when calling for technical support.

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(863) 357-0006 Fax

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1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model MHD-341-Dr1 Magnetic Hookswitch Wall Telephone.

The information in this manual is subject to change without notification.

For information not included in this manual, please call or write:

CEECO
Customer Service
519 West South Park Street
Okeechobee, FL 34972

(863) 357-0798
(863) 357-0006 FAX

2.0 GENERAL

The CEECO Model MHD-341-Dr1 Magnetic Hookswitch Desktop Telephone is equipped with a receiver actuated, magnetically operated hookswitch; built in volume control; background noise elimination and other programmable features. The MHD-341-Dr1 is designed for special applications where a telephone must be sturdy and attractive. On the face of the telephone is the volume control button bearing a universal volume symbol. During a telephone call, each press of the button will produce an incremental raise in volume. On the fourth press, it will reset to the starting point and also when it is hung up. The overall maximum gain is 18-20dB. The heavy duty armored cord handset is hearing aide compatible.

3.0 PROGRAMMING

1) **Connect the Ceeco XFD Series Telephone** to the Telephone Line provided by your local Telephone Company or to analog type PABX Station.

2) Using another Telephone (Different Telephone Line or cell phone) equipped with a Touch Tone Keypad, **call the CEECO XFD Series Telephone**.

3) **After 4 rings** of the CEECO Telephone, **answer it** by lifting the handset off hook and keep it that way. Three tones should be heard indicating the phone is ready for remote input.

3.0 PROGRAMMING CONTINUED…

4) **With the other phone, enter # 2 3 3 2 6 *.** This is the factory default 5-digit pass code. Instructions for changing the pass code appear below. **Two (2) beeps** will be heard indicating a valid Pass Code entry. Five (5) beeps will only be heard when an error occurs and programming was not accepted. **Two (2) beeps** will always be given to indicate each successful programming entry below.

- Enter # 9 7 * to clear all memory. It is not necessary to do this hereafter. Individual programming options may be changed from time to time by entering only the necessary key presses and there is no requirement to "re-program" everything each time.

- To program the **Auto Dial Number**, **enter # 1 9 x * (where x = the number to be dialed).** If none of the features below are desired, you may stop here and hang up. The programmed automatic dialing number will be saved and stored.

- If it is necessary to enter a PBX or other access digit, enter # 5 5 x * (where x = any number 0 thru 9). When a call is initiated, the phone will automatically dial this digit first.

- If it is ever necessary to Disable the PBX/Access feature enter # 5 5 *.

- If a pause is required between the PBX or Access number dialing and the auto-dial number, enter # 5 8 x * (where x = # of seconds for the pause. 1 to 9 seconds maximum).

- If it is required that the phone dial in Rotary Dial Mode enter # 5 7 1 * (Rotary 10pps).

- If the environment is noisy and background noise elimination is desired, enter # 5 9 1 *.

- In order to change the Pass Code, enter # 3 1 x * (where x = any 5-Digit pass code).

- When programming is completed, simply hang up.

Release Firmware: xfd31_v1_1

4.0 TESTING

Lift the handset. After dial tone is heard, the pre-programmed number will automatically dial out on the telephone line and normal telephone operation will follow. When the call is completed, return the handset to its magnetic cradle.

5.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

5.1 Using a 301-037 security tool (sold separately), loosen (do not remove) the locking screw on the rear of the phone. The security tool is for a standard 5/32" button head screw, generally used on the framework of the phone booths.

5.2 Separate the cover assembly from the backplate assembly by pulling the bottom forward and lifting up. The backplate assembly is designed to mount on any flat vertical surface.

5.3 Run the inside station wire through the backplate assembly and terminate on to the RJ11C terminal block on the backplate.

5.4 The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.

5.5 Plug the modular line cord from the cover assembly into the RJ11C terminal block.

5.6 Dress the line cable away from the locking screw and install the cover assembly by placing the two tabs into the two corresponding slots and pushing forward until the housing slips into place for the security screw.

5.7 Secure the cover assembly by tightening the security screw on the rear of the case.

*******WARNING*******

A. Never install telephone wiring during a lightning storm.

B. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.

C. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.

D. Use caution when installing or modifying telephone lines.

6.0 TESTING

6.1 With the phone connected to a working telephone line, lift the handset. Dial tone should be heard.

6.2 The pre-programmed Auto-Dial number(s) will dial out. The microphone is muted while the phone is dialing. When the call is connected normal phone operation should follow.

6.3 Hang up the phone.

6.4 Place a call into the phone.

6.5 Answer the phone and normal phone operation should follow.

6.6 Hang up the phone. It is ready for use. If any problems were experienced, please refer to section 10.2.

7.0 SPECIFICATIONS

INPUT POWER:	Telephone Line Powered.
LOOP CURRENT:	20mA MIN. TO 80mA MAX.
IMPEDANCE:	600 Ohms.
SIGNALING:	DTMF 70ms Tone, 50ms Spacing. Analogue Device
HEARING AID COMPATIBILITY:	Meets EIA Standards
FCC REGISTRATION:	BW88T7-13717-TE-T
RINGER EQUIVALENCY:	0.4A
TYPE JACK:	RJ11C
ENVIRONMENTAL:	Temperature 0º C to 50º C Humidity 20%-90% non-condensating.
TELEPHONE COVER:	14 Gauge Stainless Steel.
WEIGHT:	Approximately 5 lb.

8.0 PARTS LIST

PART NUMBER	DESCRIPTION
11113	Stainless Steel Housing with backplate.
XFD	Printed Circuit Board
6017	Reed Switch.
14010	Modular Cord.
9023	1/4" –20-3/4" Security Screw.
9005	Grommet.
14014	Modular Jack.
9020	Security Tool.
8195	32” Armored Cord Handset with Switch Plate.
14018	Magnetic Assembly.
12017	Ringer

9.0 FCC NOTICE

9.1 FCC REGISTRATION AND REPAIR INFORMATION

Your new telephone has been registered with the Federal Communication Commission (FCC) in accordance with Part 68 of its rules. The FCC requires that you be advised of certain requirements involving the use of this telephone.

9.2 CONNECTION AND USE WITH THE NATIONWIDE TELEPHONE NETWORK

The FCC requires that you connect this telephone to the Nationwide Telephone Network through a registered jack provided by the Telephone Company in your area. This jack is a modular outlet, which you can order from your local telephone company.

9.3 NOTIFICATION TO THE TELEPHONE COMPANY

Before connecting this telephone, the FCC requires that you notify your local telephone company business office. The number is in the front of your phone book.

Tell them:
The "line" to which you will connect the telephone (that is, your phone number), the telephone's FCC registration number and ringer equivalence number. These numbers are listed in section 7.0

The FCC further requires that you notify your local telephone company when permanently disconnecting this telephone.

10.0 REPAIR AND RETURN INFORMATION

10.1 WARRANTY REPAIR

Any device returned requiring warranty service; repair or credit must be accompanied with a "Return Material Authorization" (RMA) FORM. It must include: return shipping instructions, original purchase order number and special marking instruction. A description of the trouble observed must be attached to the defective unit. This information must be inside the shipping container.

10.2 DIRECT ALL INQUIRES TO:

CEECO
Repair Department
519 West South Park Street
Okeechobee, FL. 34972
(863) 357-0798
(863) 357-0006 (FAX)

10.3 NON-WARRANTY REPAIR:

CEECO will repair equipment out of warranty for a set charge plus parts. The customer must pay the shipping costs for both directions.

10.4 RETURN FOR CREDIT:

Material may be returned for credit only with prior approval. Material authorized for return is subject to a 20% restocking charge based on the manufacturer's list price. Return Material Authorization must be requested no later than 30 days after original shipment.

11.0 WARRANTY POLICY

11.1 GENERAL

CEECO products are guaranteed to be free of defects in material and workmanship for a period of 365 days from the date of original purchase. CEECO's obligation under this warranty is limited to repair or replacement of any part found to be defective by CEECO. Under no circumstances shall CEECO be liable for loss, damage, cost of repair or consequential damages of any kind which have been caused by neglect, abuse, acts of GOD or improper operation of equipment.

11.2 PRINTED CIRCUIT BOARDS

Printed circuit boards should not be field repaired. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by anyone other than CEECO will void the warranty.